

New species of *Agathidium* Panzer from China (Coleoptera, Leiodidae, Agathidiini)

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New species of *Agathidium* Panzer from China (Coleoptera, Leiodidae, Agathidiini). - Records and/or descriptions are given for 13 species of *Agathidium* from China (Sichuan), deposited in the Geneva Museum and collected by Dr. S. Kurbatov. New species are: *Agathidium* (*Agathidium*) *modestum* sp. n., *A.* (*A.*) *armatum* sp. n., *A.* (*A.*) *rubiginosum* sp. n., *A.* (*A.*) *hani* sp. n., *A.* (*A.*) *luojjense* sp. n., *A.* (*A.*) *pseudouniforme* sp. n., *A.* (*Microceble*) *xilingense* sp. n., *A.* (*Macroceble*) *kurbatovianum* sp. n., *A.* (*M.*) *megacephalum* sp. n. New records for Sichuan are: *Agathidium* (*Agathidium*) *brunneipenne* Ang. & Dmz. and *A.* (*A.*) *lugubre* Ang. & Dmz.

Key-words: Coleoptera - Leiodidae - *Agathidium* - China - new species - new records.

INTRODUCTION

A large amount of new data on the *Agathidium* fauna of China results from a study of the material deposited in the Geneva Museum. The collection treated consists of 102 specimens and 13 species collected in 4 localities of the Sichuan Province.

The new data concern:

- a) 9 new species.
- b) 2 new records for Sichuan: *Agathidium* (*Agathidium*) *brunneipenne* Ang. & Dmz. and *A.* (*A.*) cf. *lugubre* Ang. & Dmz.

The Chinese Agathidiini are moderately known. With the new species are known 80 species, collected mainly in Sichuan, Yunnan and Zhejiang Province. The majority of species are endemic; only 6 species are present in Taiwan or Oriental Region.

The specimens are deposited in the Geneva Museum (MHNG) and in Angelini's collection in Genoa Natural History Museum (AC-GNHM). For methods see ANGELINI & DE MARZO (1981: 188-192).

I am indebted to Dr Ivan Löbl for making the material available for study and to Jonathan Cooter (Hereford) for comments on the earlier version of the manuscript.

Agathidium Panzer, 1797**Agathidium (Neoceble) dundai** Ang. & Svec

Agathidium (Neoceble) dundai Angelini & Svec, 1994: 12.

Material: China, Sichuan, Xiling Mt., 1600-2400 m, 30.VII-4.VIII.1996, leg. S. Kurbatov, 1 ex. ♀ in MHNG.

Distribution: China (Sichuan).

Agathidium (Agathidium) modestum sp. n.

Figs 1, 7-9, 16

Holotype ♂: China, Sichuan, env. Xichang, M. Luoji, 2300-2400 m, 16-24.VII.1996, leg. S. Kurbatov, in MHNG.

Paratypes: Same data as holotype. 7 ♂ and 8 ♀ in MHNG. 3 ♂ and 2 ♀ in AC-GNHM.

Length 2,6-3,0 mm (holotype ♂ 2,90 mm). Dorsum reddish-brown, venter lighter; antennae uniformly testaceous; legs reddish-brown. Microreticulation absent; puncturation fine and sparse on whole dorsum. Sutural striae absent.

Head: Punctures very small, superficial, separated from each other by 2-10 times their own diameter. Widest at the eyes; eyes flattened (fig. 1); antero-lateral margins distinctly raised; clypeus moderately emarginate; clypeal line absent. 3rd antennal segment 1,27 times as long as 2nd and shorter than 4th + 5th together.

Pronotum: Punctures as those on head, separated from each other by 2-15 times their own diameter. 1,59 times as broad as head, moderately broader than long (width/length= 1,55) and very convex (width/height= 1,4); anterior margin weakly curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 0,90 mm, width 1,40 mm and height 1,00 mm.

Elytra: Punctures as those on head, separated from each other by 2-5 times their own diameter. As broad as pronotum, a little broader than long (width/length= 1,03) and moderately convex (width/height= 1,79); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,35 mm, width 1,40 mm and height 0,78 mm.

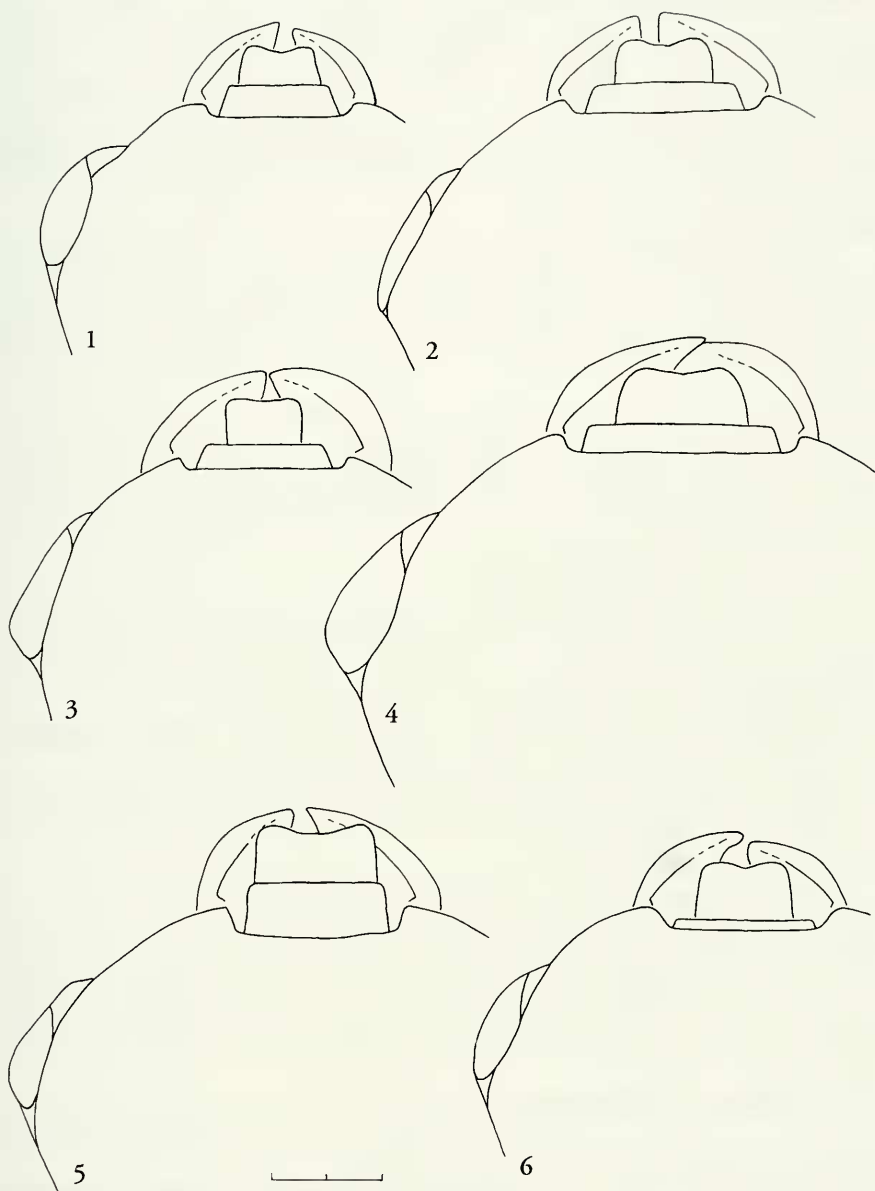
Metathoracic wings absent. Meso- and metasternum: median carina absent, lateral lines absent, femoral lines complete, a small tubercle present between the metacoxae; metasternum short, meso- and metacoxae almost touching.

Legs: Male hind femora curved at posterior margin (fig. 16). Tarsal formula: ♂ 5-5-4, ♀ 4-4-4.

Aedeagus as in figures 7. 8. Spermatheca as in figure 9.

Discussion: Species of the *madurensis* group; *Agathidium modestum* sp. n. is similar to *A. alesi* Ang. & Dmz. (from Taiwan) and *A. distinguendum* Ang. & Dmz. (from Taiwan); from *A. distinguendum* it differs in shape of eyes, greater length, and in having the pronotum less transverse; from *A. alesi* it differs only in shape of pronotum, which is less transverse and male hind femora, without tooth at posterior margin.

Distribution: China (Sichuan).



FIGS 1-6

Head of: 1, *Agathidium modestum* sp. n.; 2, *A. armatum* sp. n.; 3, *A. rubiginosum* sp. n.; 4, *A. hani* sp. n.; 5, *A. luojiense* sp. n.; 6, *A. pseudouniforme* sp. n.

Agathidium (Agathidium) armatum sp. n.

Figs 2, 10-12, 17

Holotype ♂: China, Sichuan. M. Xiling, 1600-2400 m, 30.VII.-4.VIII.1996, leg. S. Kurbatov, in MHNG.

Paratypes: Same data as holotype, 2 ♂ and 5 ♀ in MHNG, 2 ♂ and 1 ♀ in AC-GNHM.

Length 2,85-3,10 mm (holotype ♂ 3,00 mm). Dorsum reddish-brown, venter lighter; antennae uniformly testaceous; legs reddish-brown. Microreticulation present only on the elytra, impressed; puncturation fine and sparse on head and pronotum, absent on elytra. Sutural striae absent.

Head: Microreticulation absent; punctures small, impressed, separated from each other by 2-5 times their own diameter. Widest at the eyes; eyes flattened (fig. 2); antero-lateral margins uniformly raised; clypeus moderately emarginate; clypeal line absent. 3rd antennal segment 2,36 times as long as 2nd and longer than 4th + 5th together.

Pronotum: Microreticulation absent; punctures smaller and more superficial than those on the head, hardly visible, separated from each other by 2-10 times their own diameter. 1,33 times as broad as head, moderately broader than long (width/length= 1,47) and moderately convex (width/height= 1,47); anterior margin moderately curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 0,95 mm, width 1,40 mm and height 0,95 mm.

Elytra: Microreticulation impressed and uniform; without puncturation. Slightly narrower than the pronotum, as broad as long and weakly convex (width/height= 1,87); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,35 mm, width 1,35 mm and height 0,72 mm.

Metathoracic wings absent. Meso- and metasternum: median carina sharp, lateral lines absent, femoral lines complete, rounded at middle.

Legs: Male hind femora with a sharp tooth at the posterior margin (fig. 17). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figures 10, 11. Spermatheca as in figure 12.

Discussion: Species of the *laevigatum* group; *Agathidium armatum* sp. n. is similar to *A. rubiginosum* sp. n. (from Sichuan) and *A. rufescens* Ang. & Dmz. (from Sichuan) in colouring of dorsum, length ratio 3rd/2nd and in microreticulation only on elytra; it differs in shape of eyes, very long and flattened. The male and female genitalia also exhibit marked differences and reference to these is necessary for precise determination.

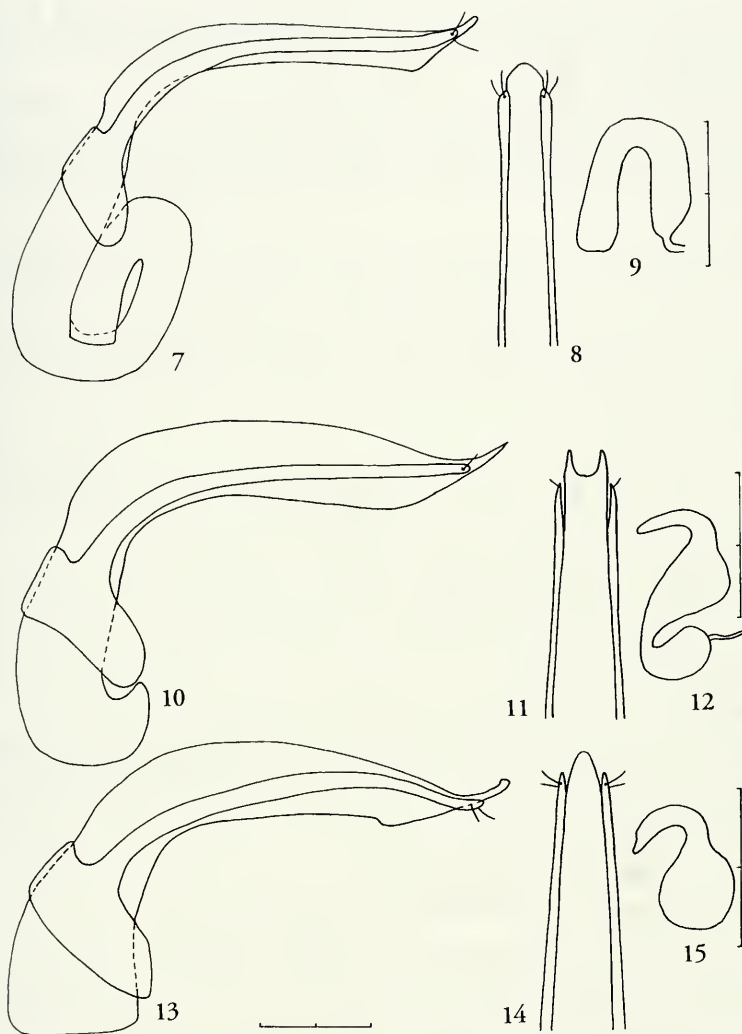
Distribution: China (Sichuan).

Agathidium (Agathidium) procerum Ang. & Dmz.

Agathidium (Agathidium) procerum Angelini & De Marzo, 1998: 359.

Material: China, Sichuan, Mt. Xiling, 1600-2400 m, 30.VII.-4.VIII.1996, leg. S. Kurbatov, 5 ex. in MHNG and AC-GNHM.

Distribution: China (Sichuan).



FIGS 7-15

Aedeagus (lateral and dorsal view of its apex) and spermatheca of: 7-9, *Agathidium modestum* sp. n.; 10-12, *A. armatum* sp. n.; 13-15, *A. rubiginosum* sp. n.

***Agathidium (Agathidium) rubiginosum* sp. n.**

Figs 3, 13-15, 18

Holotype ♂: China, Sichuan, Mt. Xiling, 1600-2400 m. 30.VII.-4.VIII.1996, leg. S.Kurbatov, in MHNG.

Paratypes: Same data as holotype, 1 ♂ in MHNG, 1 ♂ and 1 ♀ in AC-GNHM.

Length 3,05-3,15 mm (holotype ♂ 3,15 mm). Dorsum reddish-brown; meso-sternum testaceous, metasternum reddish-brown; antennae uniformly testaceous; legs

reddish-brown. Microreticulation present only on the elytra, superficial, more impressed on female; puncturation fine and sparse on head and pronotum, absent on elytra. Sutural striae absent.

Head: Microreticulation absent; punctures small, superficial, separated from each other by 2-6 times their own diameter. Widest at the eyes; eyes flattened (fig. 3); antero-lateral margins uniformly raised; clypeus slightly emarginate; clypeal line absent. 3rd antennal segment 2,4 times as long as 2nd and longer than 4th + 5th together.

Pronotum: Microreticulation absent; punctures smaller and more superficial than those on the head, separated from each other by 1-15 times their own diameter. 1,59 times as broad as head, moderately broader than long (width/length= 1,42) and moderately convex (width/height= 1,56); anterior margin sharply curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 1,05 mm, width 1,50 mm and height 0,96 mm.

Elytra: Microreticulation superficial and uniform; puncturation absent. Slightly narrower than the pronotum, as broad as long and weakly convex (width/height= 1,86); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,40 mm, width 1,40 mm and height 0,75 mm.

Metathoracic wings absent. Meso- and metasternum: median carina weak, lateral lines absent, femoral lines incomplete, rounded at middle.

Legs: Male hind femora with a sharp tooth at the posterior margin (fig. 18). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figures 13, 14. Spermatheca as in figure 15.

Discussion: See *Agathidium armatum* sp. n.; from *A. rufescens* Ang. & Dmz. (from Sichuan) it differs in greater width ratio pronotum/head and in shape of pronotum, less transverse.

Distribution: China (Sichuan).

Agathidium (Agathidium) brunneipenne Ang. & Dmz.

Agathidium (Agathidium) brunneipenne Angelini & De Marzo, 1998: 363.

Material: China, Sichuan, Mt. Xiling, 1600-2400 m, 30.VII.-4.VIII.1996, leg. S. Kurbatov, 1 ♀ in MHNG.

Distribution: China (Hubei, Sichuan). New record for Sichuan.

Agathidium (Agathidium) cf. lugubre Ang. & Dmz.

Agathidium (Agathidium) lugubre Angelini & De Marzo, 1998: 365.

Material: China, Sichuan, Mt. Xiling, 1600-2400 m, 30.VII.-4.VIII.1996, leg. S. Kurbatov, 3 ♀ in MHNG (tentative determination based on female specimens).

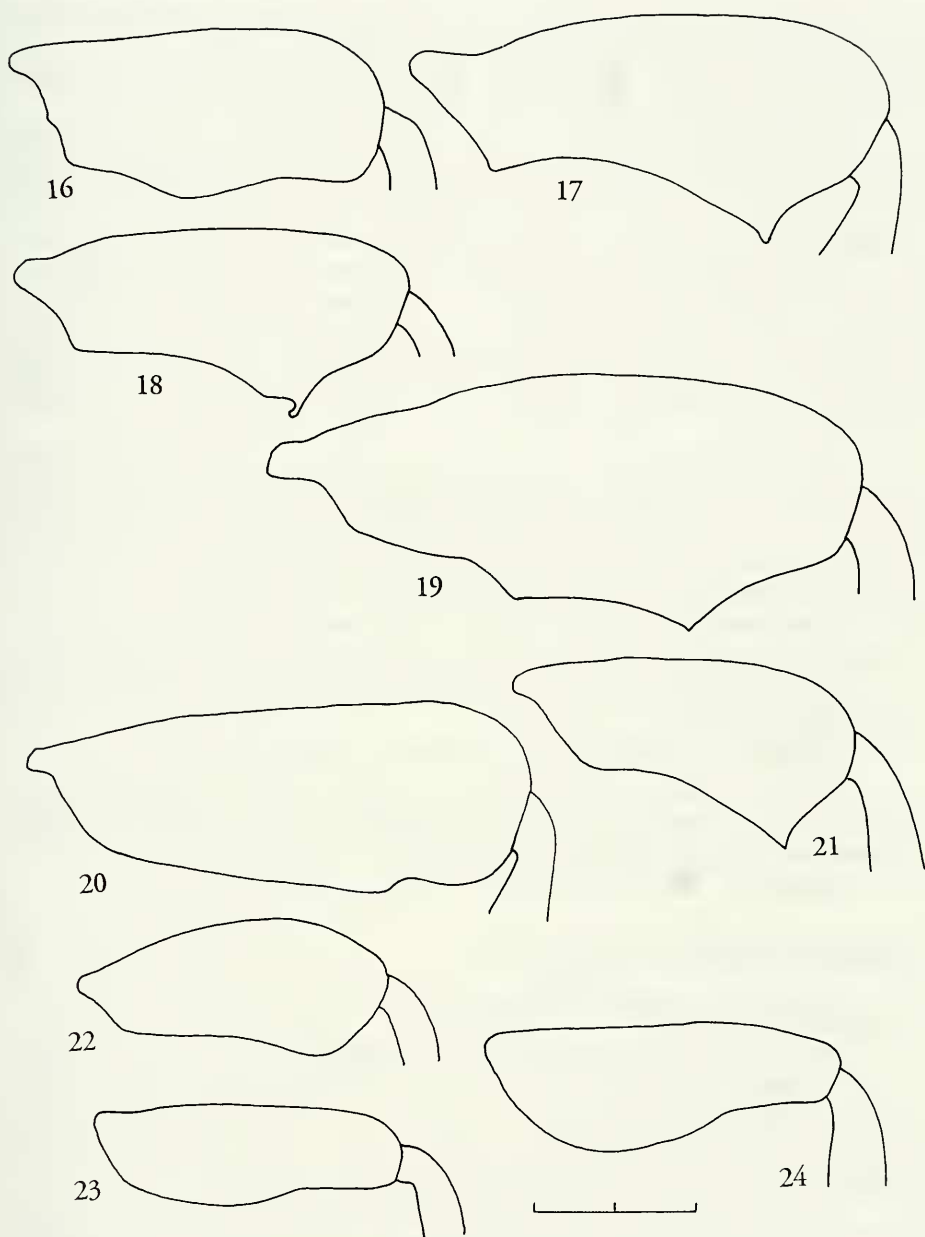
Distribution: China (Guangxi, Sichuan). New record for Sichuan.

Agathidium (Agathidium) hani sp. n.

Figs 4, 19, 25-27

Holotype ♂: China, Sichuan, M. Emei, VII.1980, leg. Jäch in AC-GNHM.

Paratypes: China, Sichuan, Mt. Xiling, 1600-2400 m, 30.VII.-4.VIII.1996, leg. S. Kurbatov, 1 ♀ in MHNG, 1 ♀ in AC-GNHM.



FIGS 16-24

Male hind femora of: 16, *Agathidium modestum* sp. n.; 17, *A. armatum* sp. n.; 18, *A. rubiginosum* sp. n.; 19, *A. hani* sp. n.; 20, *A. luojiense* sp. n.; 21, *A. pseudouniforme* sp. n.; 22, *A. xiliugense* sp. n.; 23, *A. kurbatovianum* sp. n.; 24, *A. megacephalum* sp. n.

Length 3,8-4,4 mm (holotype ♂ 4,40 mm). Dorsum dark reddish-brown, venter reddish-brown, mesosternum lighter; antennae uniformly testaceous; legs reddish-brown. Microreticulation almost absent, present only in traces on the elytra; puncturation fine and sparse on whole dorsum. Sutural striae absent.

Head: Punctures very small, superficial, separated from each other by 4-10 times their own diameter. Widest at the eyes; eyes flattened (fig. 4); antero-lateral margins uniformly raised; clypeus moderately emarginate; clypeal line absent. 3rd antennal segment 2 times as long as 2nd and longer than 4th + 5th together.

Pronotum: Punctures smaller and more superficial than those on the head, hardly visible, separated from each other by 4-15 times their own diameter. 1,62 times as broad as head, weakly broader than long (width/length= 1,34) and very convex (width/height= 1,43); anterior margin sharply curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 1,55 mm, width 2,08 mm and height 1,45 mm.

Elytra: Microreticulation present only in traces; punctures as on head but separated from each other by 1-5 times their own diameter; slightly narrower than the pronotum, a little longer than broad (width/length= 0,97) and weakly convex (width/height= 1,9); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,95 mm, width 1,90 mm and height 1,00 mm.

Metathoracic wings absent. Meso- and metasternum: median carina weak, lateral lines absent, femoral lines incomplete, rounded at middle.

Legs: Male hind femora with two tooth at the posterior margin (fig.19). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figures 25, 26. Spermatheca as in figure 27.

Discussion: Species of the *dentatum* group; *Agathidium hani* sp. n. is similar to *A. lugubre* Ang. & Dmz. (from Guangxi): it differs in shape of male hind femora, aedeagus and in greater width ratio pronotum/head.

Distribution: China (Sichuan).

Agathidium (Agathidium) luojiense sp. n.

Figs 5, 20, 28-30

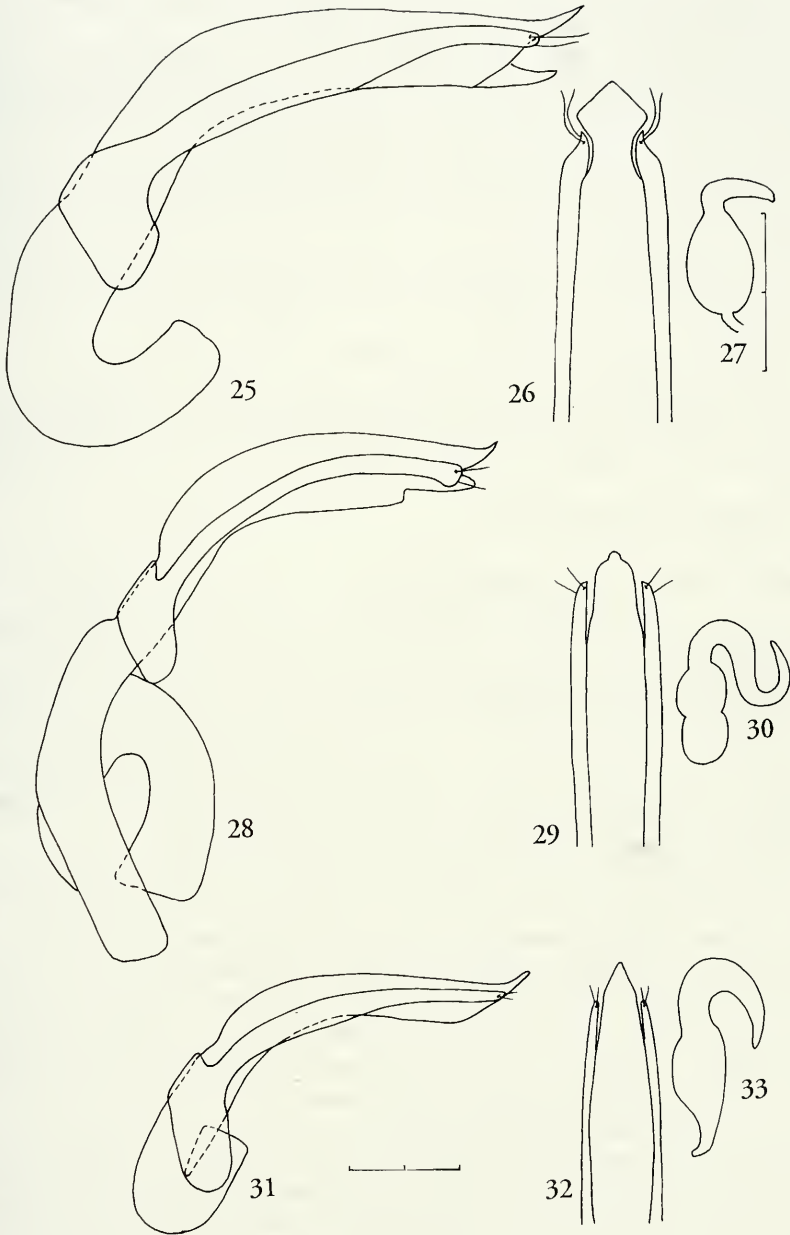
Holotype ♂: China, Sichuan, Xichang, M. Luoji. 2300-2500 m, 16.-24.VII.1996, leg. S. Kurbatov, in MHNG.

Paratypes: Same data as holotype, 5 ♂ and 8 ♀ in MHNG, 2 ♂ and 2 ♀ in AC-GNHM.

Length 3,25-3,50 mm (holotype ♂ 3,45 mm). Dorsum reddish-brown; mesosternum reddish-brown, metasternum black; antennae uniformly testaceous; legs reddish-brown. Microreticulation almost absent, present only in traces on the elytra; puncturation fine and sparse on whole dorsum. Sutural striae absent.

Head: Punctures very small, superficial, separated from each other by 1-10 times their own diameter. Widest at the eyes; eyes flattened (fig. 5); antero-lateral margins uniformly raised; clypeus moderately emarginate; clypeal line absent. 3rd antennal segment 1.3 times as long as 2nd and as long as the 4th + 5th together.

Pronotum: Puncturation as that of head. 1,42 times as broad as head, moderately broader than long (width/length= 1,57) and very convex (width/height= 1,4); anterior



FIGS 25-33

Aedeagus (lateral and dorsal view of its apex) and spermatheca of: 25-27, *Agathidium hani* sp. n.; 28-30, *A. luojiense* sp. n.; 31-33, *A. pseudouniforme* sp. n.

margin sharply curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 1,03 mm, width 1,62 mm and height 1,15 mm.

Elytra: Microreticulation almost absent, only traces; puncturation as that of head. As broad as pronotum, as broad as long and moderately convex (width/height= 1,8); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,62 mm, width 1,62 mm and height 0,90 mm.

Metathoracic wings absent. Meso- and metasternum: median carina absent, lateral lines absent, femoral lines short, rounded at middle; metasternum short, meso- and metacoxae almost touching.

Legs: Male hind femora curved at posterior margin (fig.20). Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figures 28, 29. Spermatheca as in figure 30.

Discussion: Species of the *dentatum* group; *Agathidium luojiense* sp. n. is similar to *A. huaense* Ang. & Dmz. and *A. pseudouniforme* sp. n.; it differs only in lesser length ratio 3rd/2nd antennal segments, in shape of male hind femora and aedeagus.

Distribution: China (Sichuan).

Agathidium (Agathidium) pseudouniforme sp. n.

Figs 6, 21, 31-33

Holotype ♂: China, Sichuan, Xichang, M. Luoji, 2300-2500 m, 16.-24.VII.1996, leg. S. Kurbatov, in MHNG.

Paratypes: Same data as holotype, 4 ♂ and 9 ♀ in MHNG, 3 ♂ and 2 ♀ in AC-GNHM; Sichuan, env. Xichang, 1600 m, 28.VII.1996, leg. S. Kurbatov, 4 ♀ in MHNG.

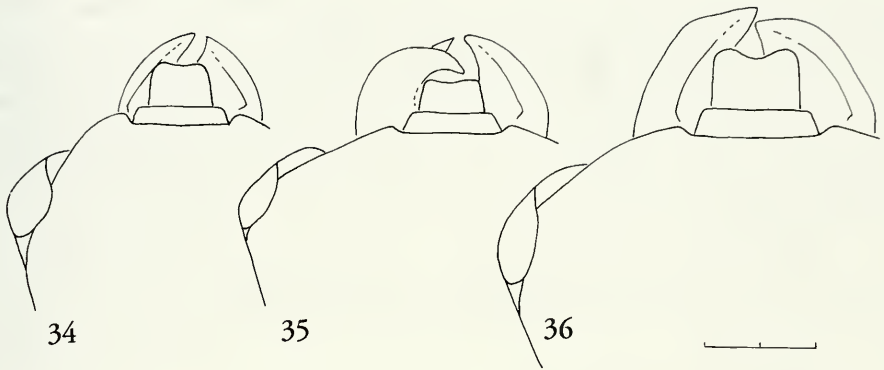
Length 2,5-3,2 mm (holotype ♂ 2,90 mm). Dorsum reddish-brown; venter reddish-brown, mesosternum lighter; antennae uniformly testaceous; legs reddish-brown. Microreticulation present only in traces at sides of pronotum and on the elytra; puncturation fine and sparse on whole dorsum. Sutural striae absent.

Head: Punctures very small, superficial, separated from each other by 1-10 times their own diameter. Widest at the eyes; eyes flattened (fig. 6); antero-lateral margins uniformly raised; clypeus moderately emarginate; clypeal line absent. 3rd antennal segment 1.7 times as long as 2nd and longer than 4th + 5th together.

Pronotum: Microreticulation present only in traces at sides of pronotum; puncturation as that of head. 1,37 times as broad as head, moderately broader than long (width/length= 1,45) and very convex (width/height= 1,42); anterior margin weakly curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 0,93 mm, width 1,35 mm and height 0,95 mm.

Elytra: Microreticulation present only in traces; punctures as those on head, separated from each other by 10-15 times their own diameter; slightly narrower than the pronotum, little longer than broad (width/length= 0,94) and weakly convex (width/height= 1,73); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,32 mm, width 1,25 mm and height 0,72 mm.

Metathoracic wings absent. Meso- and metasternum: median carina sharp, lateral lines absent, femoral lines complete, rounded at middle.



FIGS 34-36

Head of: 34, *Agathidium xilingense* sp. n.; 35, *A. kurbatovianum* sp. n.; 36, *A. megacephalum* sp. n.

Legs: Male hind femora with a sharp tooth at the posterior margin (fig.21).

Tarsal formula: ♂ 5-5-4, ♀ 5-4-4.

Aedeagus as in figures 31, 32. Spermatheca as in figure 33.

Discussion: See *Agathidium luojiense* sp. n.; from *A. huaense* Ang. & Dmz (from Shaanxi) it differs in shape of tooth of male hind femora, in shape of aedeagus, in the greater length ratio 3rd/2nd antennal segments and width ratio pronotum/head.

Distribution: China (Sichuan).

Agathidium (Microceble) xilingense sp. n.

Figs 22, 34, 37, 38

Holotype ♂: China, Sichuan, Mt. Xiling, 1600-2400 m, 30.VII.-4.VIII.1996, leg. S. Kurbatov, in MHNG.

Paratypes: Same data as holotype, 1 ♂ in MHNG, 1 ♂ in AC-GNHM.

Length 2,2-2,3 mm (holotype ♂ 2,3 mm). Dorsum reddish-brown; mesosternum testaceous, metasternum reddish-brown; antennae testaceous but with segments 9-10 darker; legs reddish-brown. Microreticulation almost absent, present only in traces on the pronotum and elytra; puncturation fine and sparse on whole dorsum. Sutural striae absent.

Head: Microreticulation absent; punctures small, impressed, separated from each other by 5-8 times their own diameter. Eyes hemispherical, head widest at the eyes (fig 34); antero-lateral margins distinctly raised; clypeus weakly emarginate, with a weakly impressed short groove and small pit either side. 3rd antennal segment 1,6 times longer than 2nd and as long as the 4th + 5th together.

Pronotum: Microreticulation almost absent, present only in traces; punctures larger than those of the head but more clearly impressed, separated from each other by 5-10 times their own diameter. 1,75 times as broad as head, moderately broader than long (width/length= 1,55) and moderately convex (width/height= 1,64); anterior margin

weakly curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 0,72 mm, width 1,12 mm and height 0,68 mm.

Elytra: Microreticulation almost absent, present only in traces; punctures similar to that of the pronotum but more superficial, separated from each other by 10-15 times their own diameter. Slightly narrower than the pronotum, as broad as long and moderately convex (width/height= 1,77); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,10 mm, width 1,10 mm and height 0,62 mm.

Metathoracic wings present. Meso- and metasternum: median carina sharp, lateral lines absent, femoral lines incomplete, rounded at middle.

Legs: Male hind femora rounded at posterior margin (fig.22). Tarsal formula: ♂ 5-5-4, ♀ unknown.

Aedeagus as in figures 37, 38.

Discussion: Species of the *andrewesi* group; *Agathidium xilingense* sp. n. is similar to *A. venustum* Ang. & Dmz (from Taiwan, Guangxi, Hong Kong, Shaanxi) and *A. taiwanense* Ang. & Dmz. (from Taiwan); it differs in greater length ratio 3rd/2nd antennal segment, the less body length and in less width ratio pronotum/head and aedeagus.

Distribution: China (Sichuan).

Agathidium (Macroceble) kurbatovianum sp. n.

Figs 23, 35, 39-41

Holotype ♂: China, Sichuan, Xichang, M. Luoji, 2300-2500 m, 16.-24.VII.1996, leg. S. Kurbatov, in MHNG.

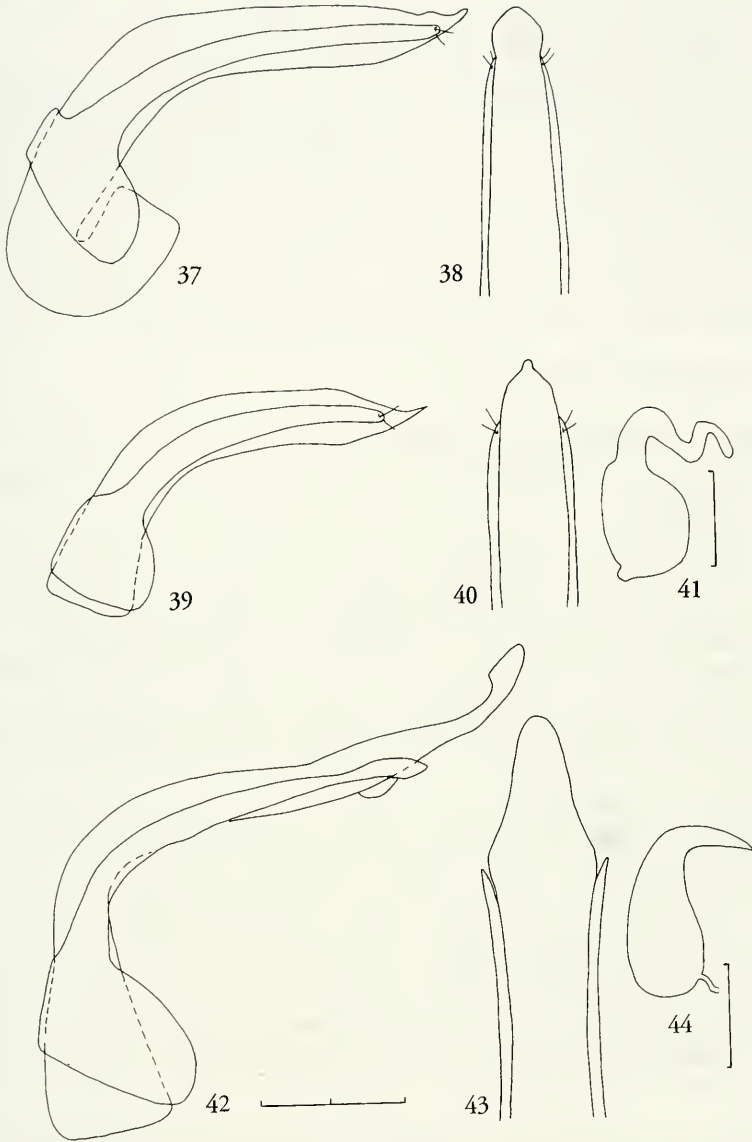
Paratypes: Same data as holotype, 3 ♀ in MHNG, 1 ♂ and 1 ♀ in AC-GNHM.

Length 2,60-2,75 mm (holotype ♂ 2,65 mm). Dorsum dark reddish-brown, venter lighter; antennae testaceous but antennal club darker; legs reddish-brown. Microreticulation absent; puncturation fine and sparse on whole dorsum. Sutural striae absent.

Head: Punctures very small, superficial, separated from each other by 2-8 times their own diameter. Widest at the eyes; eyes slightly flattened (fig. 35); antero-lateral margins uniformly raised; clypeus slightly emarginate; clypeal line absent; left mandible with a tooth. 3rd antennal segment 1,09 times as long as 2nd and shorter than 4th + 5th together.

Pronotum: Microreticulation absent; punctures smaller and more superficial than those on the head, hardly visible, separated from each other by 2-15 times their own diameter. 1,46 times as broad as head, weakly broader than long (width/length= 1,14) and very convex (width/height= 1,34); anterior margin moderately curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 1,00 mm, width 1,14 mm and height 0,85 mm.

Elytra: Puncturation as that of pronotum. As broad as pronotum, a little broader than long (width/length= 1,07) and weakly convex (width/height= 1,9); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,10 mm, width 1,18 mm and height 0,62 mm.



FIGS 37-44

Aedeagus (lateral and dorsal view of its apex) of: 37-38, *Agathidium xilingense* sp. n.; 39-40, *A. kurbatovianum* sp. n.; 42-43, *A. megacephalum* sp. n. — Spermatheca of: 41, *Agathidium kurbatovianum* sp. n.; 44, *A. megacephalum* sp. n.

Metathoracic wings absent. Meso- and metasternum: median carina weak, lateral lines absent, femoral lines absent, a small tubercle present between the metacoxae; metasternum short, meso- and metacoxae almost touching.

Legs: Male hind femora curved at posterior margin (fig.23). Tarsal formula: ♂ 5-5-4, ♀ 4-4-4.

Aedeagus as in figures 39, 40. Spermatheca as in figure 41.

Discussion: *Agathidium kurbatovianum* sp. n. is similar to *A. sherpa* Ang. & Dmz. (from Nepal) and *A. schawalleri* Ang. & Dmz. (from Nepal); it differs in lesser length ratio 3rd/2nd antennal segments; from *A. schawalleri* it differs also in shorter body length and in shape of the pronotum which is less transverse. From *A. oblitum* Ang. & Dmz. (from Taiwan) and *A. narusawae* Hoshina (from Ryukyus Is.) it differs in greater body length, greater width ratio pronotum/head and length ratio 3rd/2nd antennal segments. From *A. megacephalum* sp. n. (Sichuan) it differs in greater length ratio 3rd/2nd antennal segments and in shape of pronotum, less transverse and more convex.

Distribution: China (Sichuan).

Agathidium (Macroceble) megacephalum sp. n.

Figs 24, 36, 42-44

Holotype ♂: China, Sichuan, Xichang, M. Luoji, 2300-2500 m, 16.-24.VII.1996, leg. S. Kurbatov, in MHNG.

Paratypes: Same data as holotype, 2 ♂ and 1 ♀ in MHNG, 1 ♂ and 1 ♀ in AC-GNHM.

Length 2,7-3,0 mm (holotype ♂ 2,90 mm). Dorsum dark reddish-brown, venter lighter; antennae testaceous with club darker; legs reddish-brown. Microreticulation absent; puncturation fine and sparse on whole dorsum. Sutural striae absent.

Head: Punctures microscopic, hardly visible, separated from each other by 2-6 times their own diameter. Widest at the eyes; eyes slightly flattened (fig. 36); antero-lateral margins uniformly raised; clypeus slightly emarginate; clypeal line absent; left mandible of male with a tooth. 3rd antennal segment 0,88 times as long as 2nd and shorter than 4th + 5th together.

Pronotum: Punctures similar or smaller and more superficial than those of the head, separated from each other by 5-10 times their own diameter. 1,4 times as broad as head, slightly broader than long (width/length= 1,29) and moderately convex (width/height= 1,65); anterior margin weakly curved; lateral outline broadly rounded. Measurements of pronotum of holotype: length 1,05 mm, width 1,36 mm and height 0,82 mm.

Elytra: Punctures as those of head, separated from each other by 1-10 times their own diameter. Slightly narrower than the pronotum, as broad as long and moderately convex (width/height= 1,84); lateral outline with humeral angle very broadly rounded. Measurements of elytra of holotype: length 1,20 mm, width 1,20 mm and height 0,65 mm.

Metathoracic wings absent. Meso- and metasternum: median carina absent, lateral lines absent, femoral lines absent, a small tubercle present between the metacoxae; metasternum short, meso- and metacoxae almost touching.

Legs: Male hind femora curved at posterior margin (fig.24). Tarsal formula: ♂ 5-5-4, ♀ 4-4-4.

Aedeagus as in figures 42, 43. Spermatheca as in figure 44.

Discussion: See *Agathidium kurbatovianum* sp. n.

Distribution: China (Sichuan).

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